

**ON-CHIP INDUCTOR HAVING IMPROVED QUALITY FACTOR AND METHOD  
OF MANUFACTURE THEREOF**

**ABSTRACT OF THE DISCLOSURE**

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An on-chip inductor may be fabricated by creating at least one dielectric layer, creating at least one conductive winding on the at least one dielectric layer and creating: (1) a P-well layer having a major surface

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parallel to a major surface of the dielectric layer, (2) field oxide layer having a major surface parallel to a major surface of the dielectric layer, (3) P-well and field oxide layer, or (4) a poly-silicon layer having a major surface parallel to a major surface of the dielectric

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layer.